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L3: Entry 1 of 2

File: JPAB

Aug 15, 2000

PUB-NO: JP02000225677A

DOCUMENT-IDENTIFIER: JP 2000225677 A

TITLE: MANUFACTURE OF LITHOGRAPHIC PRINTING PLATE AND PRINTING METHOD

PUBN-DATE: August 15, 2000

## INVENTOR-INFORMATION:

NAME

COUNTRY

SASA, NOBUMASA

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

KONICA CORP

APPL-NO: JP11029905

APPL-DATE: February 8, 1999

INT-CL (IPC): B41 C 1/10; B41 N 1/14; B41 N 3/08; G03 F 7/00; G03 F 7/09

## ABSTRACT:

PROBLEM TO BE SOLVED: To provide a method for manufacturing a novel lithographic printing plate with outstanding sensitivity, plate wear and print scumming performance and a printing method by which an image can be developed on a printing press using this lithographic printing plate.

SOLUTION: This printing plate is manufactured by supplying a reducing agent (or a coupling agent) to the image recording layer of a lithographic printing plate material having the image recording layer containing a diazo compound (or a diazosulfonate compound) on a support. Light or heat is applied, in an image pattern, to the lithographic printing plate material and the reducing agent (or the coupling agent) of the diazo compound is supplied to the surface of the image recording layer and further, the lithographic printing plate material is mounted on the printing cylinder of a printing press. In addition, dampening solution and/or ink are supplied and the ink is transferred to a receiving element from the image recording layer. Besides, the reducing agent of the diazo compound is supplied, in an imaginal shape, to the surface of the image recording layer containing the diazo compound using an ink jet process, and the light or the heat is applied to the image recording layer and further, the printing plate is mounted on the printing cylinder of the printing press. In addition, the dampening water and/or the ink are supplied to transfer the ink to the receiving element.

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L3: Entry 2 of 2

File: DWPI

Aug 15, 2000

DERWENT-ACC-NO: 2000-667117

DERWENT-WEEK: 200065

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TITLE: Lithographic printing plate manufacture involves supplying reducer to recording layer containing diazo compound and provided on support material

**PATENT-ASSIGNEE:**

ASSIGNEE

CODE

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PRIORITY-DATA: 1999JP-0029905 (February 8, 1999)

**PATENT-FAMILY:**

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INT-CL (IPC): B41 C 1/10; B41 N 1/14; B41 N 3/08; G03 F 7/00; G03 F 7/09

ABSTRACTED-PUB-NO: JP2000225677A

**BASIC-ABSTRACT:**

NOVELTY - A reducer is supplied to image recording layer of the lithographic printing plate. The plate has recording layer containing a diazo compound on support material such as aluminum paper or plastic film.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for the lithographic printing procedure. Heat or light energy is applied to the recording layer, corresponding to the image and a reducer of a diazo compound is supplied using inkjet system. The lithographic printing plate is installed on the printing cylinder of the printer. Alkaline water or/and ink containing coupling agent is supplied to the recording layer and the ink is then collected. Alternatively, the reducer can be supplied after the application of heat or light energy and installation of the plate on the printing cylinder, or after installing the plate on the cylinder, application of energy and supply of reducer can be done sequentially. The sequence of applying energy and supplying the reducer can be changed, accordingly.

USE - For manufacturing lithographic printing plate.

ADVANTAGE - Excellent sensitivity of the plate, plate wear and stain property of printing are obtained. The printing procedure is highly suited to the environment, thus improving operability.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: LITHO PRINT PLATE MANUFACTURE SUPPLY REDUCE RECORD LAYER CONTAIN DIAZO COMPOUND SUPPORT MATERIAL